

Application No. 09/886,663

Filed: June 21, 2001

TC Art Unit: 1616

Confirmation No.: 4750

IN THE CLAIMS

Please amend claims 5, 9, and 13 and add new claims 21-29 as shown in the Status of the Claims section, infra. No new matter has been added. Additions are underlined and deletions are struckthrough and/or enclosed between double brackets ([[]]).

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STATUS OF THE CLAIMS

1. (Withdrawn) An antimicrobial and chemical deactivating composition for use in a liquid medium or for incorporation into a coating, structural plastic material, thin microporous membrane, textile, or sponge, said composition comprising nanosize or submicron particles of silver, silver-copper alloy, chemical compounds of copper, iron, molybdenum and zinc Pyrithione.

2. (Withdrawn) An antimicrobial composition comprising nanosize or submicron size silver, silver-copper alloy, copper, iron, molybdenum and zinc Pyrithione as a powder, dispersion or an encapsulated composition with a suitable polymeric hydrogel selected from a group of acrylates, hydrophilic polyurethanes, polyvinyl alcohol, natural biopolymers, polyacetic acid, and acrylamides.

3. (Canceled).

4. (Withdrawn) A method for reducing the exposure to, or for deactivating chemical and biological warfare agents, and other toxic organic vapors at the surfaces of materials, comprising incorporating an antimicrobial and a chemical deactivating agent in porous fluoropolymers with a sandwich layer or crosslinked polyvinyl alcohol or vinylalcohol copolymers with plasticizers and additives with the cross linking agents glyoxal, formaldehyde, and titanium triamino isopropoxide.

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5. (Previously Presented) An antimicrobial, chemical protective and chemical agent deactivating material comprising:

a laminating layer free of activated carbon for providing a physical barrier to chemical vapors while permitting moisture to pass through said layer, wherein said physical barrier comprises a continuous polymeric film;

chemical deactivation components free of activated carbon deposited on said laminating layer, said chemical deactivation components being dispersed within a carrier material said chemical deactivation components comprising copper and silver compounds;

biocidal components free of activated carbon deposited on a layer of said chemical deactivation components said biocidal components being dispersed within carrier material, said biocidal components comprising copper and silver compounds.

6. (Canceled).

7. (Withdrawn) The antimicrobial and chemical deactivating material of claim 5 further comprising an assembly of positively charged polymers self assembling with negatively charged polymers to form a water insoluble electrostatic barrier.

8. (Canceled).

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9. (Previously Presented) A chemical protective and chemical agent deactivating material comprising:

a laminating layer free of activated carbon for providing a physical barrier to chemical vapors while permitting moisture to pass through said layer, wherein said physical barrier comprises a continuous polymeric film;

chemical deactivation components free of activated carbon deposited on said laminating layer, said chemical deactivation components being dispersed within a carrier material, said chemical deactivation components comprising copper and silver compounds.

10. (Canceled).

11. (Withdrawn) The antimicrobial and chemical agent deactivating material of claim 9 further comprising an assembly of positively charged polymers self assembling with negatively charged polymers to form a water insoluble electrostatic barrier.

12. (Canceled).

13. (Previously Presented) An antimicrobial and chemical protective material comprising:

a laminating layer free of activated carbon for providing a physical barrier to chemical vapors while permitting moisture to pass through said layer, wherein said physical barrier comprises a continuous polymeric film;

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biocidal components free of activated carbon deposited on said laminating layer, said biocidal components being dispersed within carrier material, said biocidal components comprising copper and silver compounds.

14. (Canceled).

15. (Withdrawn) The antimicrobial and chemical agent deactivating material of claim 13 further comprising an assembly of positively charged polymers self assembling with negatively charged polymers to form a water insoluble electrostatic barrier

16. (Canceled).

17. (Withdrawn) An antimicrobial and chemical deactivating mixture comprising:

catalytic material for providing chemical deactivation;

an antimicrobial;

polyvinyl alcohol;

wherein said catalytic material, antimicrobial and polyvinyl alcohol are blended to form said mixture.

18. (Withdrawn) An antimicrobial and chemical deactivating material comprising:

a laminating layer of plasma treated polyvinyl alcohol for providing a physical barrier to chemical vapors while permitting moisture to pass through said layer;

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catalytic material deposited on said laminating layer to provide chemical deactivation;
an antimicrobial deposited on said catalytic materials.

19. (Withdrawn) The antimicrobial and chemical deactivating material of claim 18 wherein said laminating layer, said catalytic material and said antimicrobial are carbon free.

20. (Withdrawn) An antimicrobial and chemical deactivating textile finish coating comprising:
polyurethane;
an antimicrobial blended with said polyurethane.

21. (New) The antimicrobial, chemical protective and chemical agent deactivating material of claim 5, wherein said polymeric film comprises crosslinked polyvinylalcohol.

22. (New) The antimicrobial, chemical protective and chemical agent deactivating material of claim 21, wherein said crosslinked polyvinylalcohol is applied to an expanded microporous film of polytetrafluoroethylene.

23. (New) The antimicrobial, chemical protective and chemical agent deactivating material of claim 9, wherein said polymeric film comprises crosslinked polyvinylalcohol.

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24. (New) The antimicrobial, chemical protective and chemical agent deactivating material of claim 23, wherein said crosslinked polyvinylalcohol is applied to an expanded microporous film of polytetrafluoroethylene.

25. (New) The antimicrobial, chemical protective and chemical agent deactivating material of claim 13, wherein said polymeric film comprises crosslinked polyvinylalcohol.

26. (New) The antimicrobial, chemical protective and chemical agent deactivating material of claim 25, wherein said crosslinked polyvinylalcohol is applied to an expanded microporous film of polytetrafluoroethylene.

27. (New) The antimicrobial, chemical protective and chemical agent deactivating material of claim 5, wherein said polymeric film comprises a copolymer of ethylene and vinyl alcohol.

28. (New) The antimicrobial, chemical protective and chemical agent deactivating material of claim 9, wherein said polymeric film comprises a copolymer of ethylene and vinyl alcohol.

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29. (New) The antimicrobial, chemical protective and chemical agent deactivating material of claim 13, wherein said polymeric film comprises a copolymer of ethylene and vinyl alcohol.